Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 to 25. (Canceled)

26. (Currently Amended) An immersion fluid having a transmission of 80% or greater at an operating wavelength ranging from 140 nm to 248 nm comprising:

at least one carrier medium selected <u>from the group consisting of bicyclohexyl</u>, <u>glycerol</u>, <u>and cis-2-methylcyclohexanol</u>; <u>and a non-aqueous fluid and a mixture of the non-aqueous fluid and an aqueous fluid</u>

from 10 ppm to a maximum solubility limit of at least one additive selected from an alkyl alcohol or a polymeric alcohol having one or more hydroxyl groups; an alkyl ethoxylate or a propylene oxide derivative thereof; an alkyl carboxylate or an alkyl acid ester; an alkyl amine having one or more amine groups including primary, secondary and tertiary amines or an alkyl amine ethoxylate; an acetylenic alcohol, an acetylenic diol or ethylene oxide/propylene oxide derivatives thereof; an alkyl polyglycoside; a block oligomer or a polymer of ethylene and propylene oxide; an alkyl sulfate, an alkyl ethoxylate sulfate, an alkyl sulfonate, or an alkyl ethyoxylate sulfonate; an alkyl ammonium salt; a glycidal ether or a glucamine derivative with an alkyl amine, an alkyl diamine, an alkyl alcohol, or an acetylenic alcohol; an alkyl urea or a dialkyl urea; a polysiloxane, a poly(dimethyl)siloxane, a polysiloxane polyester copolymer, or derivatives thereof; a fluorinated or partially fluorinated acetylenic alcohol, diol, or derivates thereof; a salt; and an electrolyte; wherein the salt and the electrolyte have a specific absorbance <1 cm⁻¹ and a refractive index equal to or greater than water at the operating wavelength, wherein the at least one carrier medium has a refractive index greater than or equal to water at the operating wavelength and wherein if the at least one carrier medium is a mixture then the non-aqueous medium is water miscible.

- 27. (Canceled)
- 28. (Canceled)

29. (New) A method of forming a pattern on a substrate coated with a layer of photoresist, the method comprising the setps of:

introducing a fluid between the layer of photoresist on the substrate and a lens having an operating wavelength ranging from 140 nm to 248 nm, wherein the fluid comprises:

at least one carrier medium selected from the group consisting of an aqueous fluid, a non-aqueous fluid, and mixtures thereof wherein the at least one carrier medium has a refractive index greater than or equal to water at the operating wavelength; and

about 10 ppm to a maximum solubility limit of at least one additive selected from an alkyl alcohol or a polymeric alcohol having one or more hydroxyl groups; and

exposing the layer of the photoresist on the substrate through the fluid to form a pattern upon the photoresist.

- 30. (New) The method of claim 29 wherein the at least one carrier medium is a mixture of an aqueous and a non-aqueous fluid and wherein the non-aqueous fluid is water miscible.
- 31. (New) The method of claim 30 wherein the non-aqueous fluid is at least one selected from methanol, ethanol, isopropyl alcohol, glycerol, ethylene glycol and derivatives thereof, polyethylene glycol and derivatives thereof, and tetrahydrofuran.
- 32. (New) The method of claim 29 wherein the at least one carrier medium is a mixture of a non-aqueous fluid and an aqueous fluid.
- 33. (New) The method of claim 32 wherein the non-aqueous fluid is at least one selected from bicyclohexyl, glycerol, and cis-2-methylcyclohexanol.
- 34. (New) The method of claim 33 wherein the non-aqueous fluid is bicyclohexyl.

- 35. (New) The method of claim 29 wherein the at least one carrier medium is a non-aqueous fluid.
- 36. (New) The method of claim 35 wherein the non-aqueous fluid is bicyclohexyl.
- 37. (New) The composition of claim 26, wherein the at least one carrier medium is bicyclohexyl.
- 38. (New) The composition of claim 26, wherein the at least one carrier medium is an aqueous fluid.
- 39. (New) The method of claim 29, wherein the at least one carrier medium is an aqueous fluid.
- 40. (New) A method of forming a pattern on a substrate coated with a layer of photoresist, the method comprising the setps of:

introducing a fluid between the layer of photoresist on the substrate and a lens having an operating wavelength ranging from 140 nm to 248 nm, wherein the fluid comprises:

at least one carrier medium selected from the group consisting of an aqueous fluid, a non-aqueous fluid, and mixtures thereof wherein the at least one carrier medium has a refractive index greater than or equal to water at the operating wavelength; and

exposing the layer of the photoresist on the substrate through the fluid to form a pattern upon the photoresist.

- 41. (New) The method of claim 40 wherein the at least one carrier medium is a mixture of an aqueous and a non-aqueous fluid and wherein the non-aqueous fluid is water miscible.
- 42. (New) The method of claim 41 wherein the non-aqueous fluid is at least one selected from methanol, ethanol, isopropyl alcohol, glycerol, ethylene glycol and derivatives thereof, polyethylene glycol and derivatives thereof, and tetrahydrofuran.

- 43. (New) The method of claim 40 wherein the non-aqueous fluid is at least one selected from bicyclohexyl, glycerol, and cis-2-methylcyclohexanol.
- 44. (New) The method of claim 43 wherein the non-aqueous fluid is bicyclohexyl.
- 45. (New) The method of claim 40 wherein the at least one carrier medium is a non-aqueous fluid.
- 46. (New) The method of claim 45 wherein the non-aqueous fluid is bicyclohexyl.